

AMENDMENTS TO THE SPECIFICATION:

Please replace Table 1 on page on page 8 with the following amended Table 1:

**TABLE 1. Multiplex Capture and Address Tag Sequences.**

Tag	Address	Capture
1	5'TGAACCCGGGTATCTCACCA (SEQ ID NO: 1)	5'TGGTGAGATACCCGGGTTC (SEQ ID NO: 2)
2	5'GGCTTTGGAGCGCTCTTTAA (SEQ ID NO: 3)	5'TTAAAGAGCGCTCCAAAGCC (SEQ ID NO: 4)
3	5'AGGAAAGGAGAGGCGTCGTC (SEQ ID NO: 5)	5'GACGACGCCTCTCCTTTCT (SEQ ID NO: 6)
4	5'AACCACCTTAAGGGACGGAC (SEQ ID NO: 7)	5'GTCCGTCCCTTAAGGTGGTT (SEQ ID NO: 8)
5	5'GTACCCTCGGAAGGACCCAA (SEQ ID NO: 9)	5'TTGGGTCCTTCCGAGGGTAC (SEQ ID NO: 10)
6	5'AAAGTCGCGCCGAGAACCTC (SEQ ID NO: 11)	5'GAGGTTCTGGGCGCGACTTT (SEQ ID NO: 12)
7	5'TGTGTTGCGCGACTTGCTAG (SEQ ID NO: 13)	5'CTACCAAGTCGCCGAACACA (SEQ ID NO: 14)
8	5'ACCTGCTGGGCGGGATGTT (SEQ ID NO: 15)	5'AACATCCCGGCCAGCAGGT (SEQ ID NO: 16)
9	5'TTTCAGGTTCCACGGCATTG (SEQ ID NO: 17)	5'CAATGCCGTGGAACCTGAAA (SEQ ID NO: 18)
10	5'AAATGGCCTTGCTGTCTACG (SEQ ID NO: 19)	5'CGTAGACAGCAAGGCCATTT (SEQ ID NO: 20)
11	5'GTTCCGTTTCGCCATGAGA (SEQ ID NO: 21)	5'TCTCATGGCGAAACCGGAAC (SEQ ID NO: 22)
12	5'ACGTGTTTCCCGCCAAATAT (SEQ ID NO: 23)	5'ATATTTGGCGGGAACACGT (SEQ ID NO: 24)
13	5'GGCTGCTAAAGGCGTTCTAA (SEQ ID NO: 25)	5'TTAGAACGCCTTTAGCAGCC (SEQ ID NO: 26)
14	5'ATTAGGGTGCGCGCCATCTT (SEQ ID NO: 27)	5'AAGATGGCGCGCACCTAAT (SEQ ID NO: 28)
15	5'CGAAGCATTTGGCCAATTTA (SEQ ID NO: 29)	5'TAAATTGGCCAAATGCTTCG (SEQ ID NO: 30)
16	5'CAGTTCGCCCAAAGGATAGG (SEQ ID NO: 31)	5'CCTATCCTTTGGGCGAACTG (SEQ ID NO: 32)

Please replace Table 3 on page on page 12 with the following amended Table 3:

**TABLE 3. Sequences of HLA DPA1 Minisequencing Primers,  
Capture Tags, and Address Tags.**

Target	Capture sequence	Primer sequence	Address sequence
C11P1U/Cap3	5'GACGACGCCTCTC CTTTCCT (SEQ ID NO: 33)	CGGACCATGTGTCA ACTTATGCC (SEQ ID NO: 34)	5'AGGAAAGGAGAG GCGTCGTC (SEQ ID NO: 35)
C15P3U/Cap2	5'TTAAAGAGCGCTC CAAAGCC (SEQ ID NO: 36)	TCAACTTATGCCGC GTTTGTACAGAC (SEQ ID NO: 37)	5'GGCTTTGGAGCG CTCTTTAA (SEQ ID NO: 38)
C20P3U		5'CAGACGCATAGAC CAACAGG (SEQ ID NO: 39)	5'CCCTGTTGGTCTA TGCCTCTG (SEQ ID NO: 40)
C31P1U/Cap7	5'CTACCAAGTCGCC GAACACA (SEQ ID NO: 41)	TATGTTTGAATTTGA TGAAGATGAG (SEQ ID NO: 42)	5'TGTGTTTCGGCGAC TTGGTAG (SEQ ID NO: 43)
C37P3U/Cap197	5'TCATGGCCCATGC GGGA (SEQ ID NO: 44)	GAGATGTTCTATGT GGATCTGGA (SEQ ID NO: 45)	59TCCCGCATGGGC CATGA (SEQ ID NO: 46)
C38P3L		5'CAGATGCCAGAC GGTCTCCTT (SEQ ID NO: 47)	5'AAGGAGACCGTCT GGCATCTG (SEQ ID NO: 48)
C50P2U/Cap9	5'TTTCAGGTTCCAC GGCATTG (SEQ ID NO: 49)	CATCTGGAGGAGTT TGGCC (SEQ ID NO: 50)	5'CAATGCCGTGGAA CCTGAAA (SEQ ID NO: 51)
C83P1U/Cap14	5'AAGATGGCGCGC ACCCTAAT (SEQ ID NO: 52)	CGTTCCAACACAC TCAGGCC (SEQ ID NO: 53)	5'AAGATGGCGCGC ACCCTAAT (SEQ ID NO: 54)

Note. C: codon; P: position; Cap: capture probe; U or L: upper or lower primer.